(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 27 January 2005 (27.01.2005)

PCT

(10) International Publication Number WO 2005/006975 A1

(51) International Patent Classification7: 5/0215, A61M 1/10

A61B 5/026,

(21) International Application Number:

PCT/AU2004/000829

(22) International Filing Date: 24 June 2004 (24.06.2004)

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data: 2003903726

18 July 2003 (18.07.2003)

(71) Applicant (for all designated States except US): VEN-TRACOR LIMITED [AU/AU]; 126 Greville Street, Chatswood, NSW 2067 (AU).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): AYRE, Peter, Joseph [AU/AU]; 31A Devonshire Street, Crows Nest, NSW 2065 (AU). TANSLEY, Geoff, Douglas [AU/AU]; 41 Sprigg Place, Mt Colah, NSW 2079 (AU).
- (74) Agent: HODGKINSON AND McINNES; Level 3, 20 Alfred Street, Milsons Point, NSW 2061 (AU).

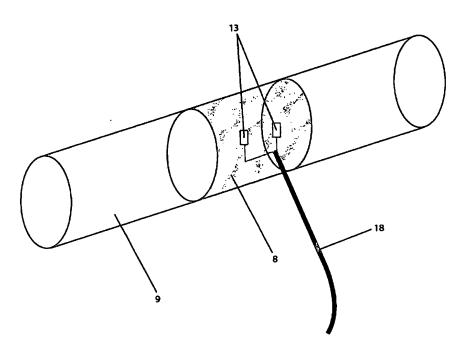
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GII, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: BLOOD PRESSURE DETECTING DEVICE AND SYSTEM



(57) Abstract: An implantable device including a cuff (8) positioned to contact the outer surface of a tubular body (9) carrying blood. At sensor (13) to measures blood pressure is encapsulated within the cuff. The device does not occlude or adversely affect the flow or blood pressure within a patient's circulatory system. Also disclosed is a system to control an implantable blood pump using a pressure based on a pressure measurement of blood flow at the inlet to the pump.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.